

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1-9. (Canceled)

10. (Previously Presented) An electronic apparatus, comprising:

an active electronic device including: a carbon nanotube; a first electrode connected to one end of the carbon nanotube; a second electrode connected to the other end of the carbon nanotube; and a third electrode placed near the carbon nanotube to irradiate the carbon nanotube with electromagnetic waves; and

a driver circuit for causing the third electrode to output electromagnetic waves and varying a frequency of the electromagnetic waves to control a conductance of the carbon nanotube, wherein the frequency includes at least a predetermined frequency so that the conductance of the carbon nanotube is increased.

11. (Canceled)

12. (Previously Presented) An active electronic device according to claim 10, wherein the frequency is about 1GHz.